

REMOVAL OF MERCURY AND NOX IN GAS

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Inventor: OGAKI YOJI; YOSHII YUJI; FUJISAWA YOSHINARI;
MIYAJI TSUNEHARU

Applicant: NIPPON KOKAN KK

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Abstract of JP3056123

PURPOSE:To remove NOx and mercury in gas and to prevent environmental pollution by bringing gas containing mercury and NOx into contact with a hypochlorite-containing washing solution and further bringing said gas into contact with a washing solution to which a reducing agent reactive with chlorine is added.

CONSTITUTION:Gas containing mercury and NOx is brought into contact with a washing solution containing hypochlorite (e.g., NaClO) in the first and second towers 20, 40 and mercury and NOx are absorbed by said washing solution. Subsequently, the above-mentioned gas is brought into contact with a washing solution which a reducing agent (e.g., Na2SO3) reactive with chlorine is added in the third tower 60 to remove chlorine in said gas. As a result, NOx and mercury contained in gas such as combustion exhaust gas are certainly removed and chlorine contained in the treated gas is absorbed to be prevented from the discharge to the atmosphere and environmental pollution can be prevented.



